

Appendix A. Database Search Strategy

Table A.1: Database-specific search strings and retrieval results prior to deduplication.

Database Name	Search String	# Results
IEEE Xplore	("spatial augmented reality" OR "projected augmented reality" OR "projected AR" OR "non-wearable augmented reality" OR "projection-based AR" OR "AR projection system" OR "instruction projection" OR "in-situ projection" OR "spatial AR" OR "SAR" OR "mixed reality") AND ((manual assembly" OR "operator support" OR "operator assistance" OR "industrial assembly" OR "task guidance" OR "manual task support" OR "assembly process" OR "assembly line" OR "manual production" OR "manufacturing" OR "industrial manufacturing" OR "production task") OR ("worker augmentation" OR "operator guidance" OR "interactive guidance" OR "assembly instruction" OR "worker assistance" OR "maintenance" OR "training" OR "inspection guidance" OR "inspection" OR "quality assurance" OR "pick-by-light" OR "pick-by-vision")) AND ((computer vision" OR "gesture tracking" OR "gesture recognition" OR "hand gesture" OR "hand tracking" OR "object tracking" OR "pose estimation" OR "viewpoint" OR "calibration" OR "gaze" OR "vision-based tracking" OR "mid-air gesture" OR "touchless interaction" OR "gesture-based control" OR "multimodal interaction" OR "EEG" OR "EEG-based workload assessment") OR ("brain-computer interface" OR "cognitive load estimation" OR "neuroergonomics" OR "cognitive ergonomics" OR "mental effort" OR "cognitive state" OR "adaptive interface" OR "adaptive user interface" OR "context-aware interface" OR "adaptive instruction system" OR "system usability scale" OR "usability" OR "real-time feedback loop" OR "closed-loop interaction" OR "occlusion handling" OR "occlusion-aware") OR ("reinforcement learning interface" OR "human-in-the-loop" OR "human-centric automation" OR "smart operator" OR "future manufacturing" OR "SAR navigation" OR "quality control")) NOT ("synthetic aperture radar" OR "successive approximation radar")	702
Scopus	TITLE-ABS-KEY(("spatial augmented reality" OR "projected augmented reality" OR "projected AR" OR "non-wearable augmented reality" OR "projection-based AR" OR "AR projection system" OR "instruction projection" OR "in-situ projection" OR "spatial AR" OR "SAR" OR "mixed reality") AND ((manual assembly" OR "operator support" OR "operator assistance" OR "industrial assembly" OR "task guidance" OR "manual task support" OR "assembly process" OR "assembly line" OR "manual production" OR "manufacturing" OR "industrial manufacturing" OR "production task") OR ("worker augmentation" OR "operator guidance" OR "interactive guidance" OR "assembly instruction" OR "worker assistance" OR "maintenance" OR "training" OR "inspection guidance" OR "inspection" OR "quality assurance" OR "pick-by-light" OR "pick-by-vision")) AND ((computer vision" OR "gesture tracking" OR "gesture recognition" OR "hand gesture" OR "hand tracking" OR "object tracking" OR "pose estimation" OR "viewpoint" OR "calibration" OR "gaze" OR "vision-based tracking" OR "mid-air gesture" OR "touchless interaction" OR "gesture-based control" OR "multimodal interaction" OR "EEG" OR "EEG-based workload assessment") OR ("brain-computer interface" OR "cognitive load estimation" OR "neuro ergonomics" OR "cognitive ergonomics" OR "mental effort" OR "cognitive state" OR "adaptive interface" OR "adaptive user interface" OR "context-aware interface" OR "adaptive instruction system" OR "system usability scale" OR "usability" OR "real-time feedback loop" OR "closed-loop interaction" OR "occlusion handling" OR "occlusion-aware") OR ("reinforcement learning interface" OR "human-in-the-loop" OR "human-centric automation" OR "smart operator" OR "future manufacturing" OR "SAR navigation" OR "quality control")))) AND NOT TITLE-ABS-KEY ("synthetic aperture radar" OR "successive approximation radar") AND PUBYEAR > 2014 AND PUBYEAR < 2026 AND (EXCLUDE (LANGUAGE, "Portuguese") OR EXCLUDE (LANGUAGE, "Russian") OR EXCLUDE (LANGUAGE, "Spanish") OR EXCLUDE (LANGUAGE, "Japanese") OR EXCLUDE (LANGUAGE, "Korean") OR EXCLUDE (LANGUAGE, "Chinese")) AND (LIMIT-TO (SUBJAREA, "COMP") OR LIMIT-TO (SUBJAREA, "ENGI") OR LIMIT-TO (SUBJAREA, "NEUR") OR LIMIT-TO (SUBJAREA, "PSYC")))	547

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Database Name	Search String	# Results
ACM Digital Library	((("spatial augmented reality" OR "projected augmented reality" OR "projected AR" OR "non-wearable augmented reality" OR "projection-based AR" OR "AR projection system" OR "instruction projection" OR "in-situ projection" OR "spatial AR" OR "SAR" OR "mixed reality") AND ((("manual assembly" OR "operator support" OR "operator assistance" OR "industrial assembly" OR "task guidance" OR "manual task support" OR "assembly process" OR "assembly line" OR "manual production" OR "manufacturing" OR "industrial manufacturing" OR "production task") OR ("worker augmentation" OR "operator guidance" OR "interactive guidance" OR "assembly instruction" OR "worker assistance" OR "maintenance" OR "training" OR "inspection guidance" OR "inspection" OR "quality assurance" OR "pick-by-light" OR "pick-by-vision")) AND ((("computer vision" OR "gesture tracking" OR "gesture recognition" OR "hand gesture" OR "hand tracking" OR "object tracking" OR "pose estimation" OR "viewpoint" OR "calibration" OR "gaze" OR "vision-based tracking" OR "mid-air gesture" OR "touchless interaction" OR "gesture-based control" OR "multimodal interaction" OR "EEG" OR "EEG-based workload assessment") OR ("brain-computer interface" OR "cognitive load estimation" OR "neuroergonomics" OR "cognitive ergonomics" OR "mental effort" OR "cognitive state" OR "adaptive interface" OR "adaptive user interface" OR "context-aware interface" OR "adaptive instruction system" OR "system usability scale" OR "usability" OR "real-time feedback loop" OR "closed-loop interaction" OR "occlusion handling" OR "occlusion-aware") OR ("reinforcement learning interface" OR "human-in-the-loop" OR "human-centric automation" OR "smart operator" OR "future manufacturing" OR "SAR navigation" OR "quality control")) AND NOT ("synthetic aperture radar" OR "successive approximation radar"))	2,748
Web of Science	("spatial augmented reality" OR "projected augmented reality" OR "projected AR" OR "non-wearable augmented reality" OR "projection based AR" OR "AR projection system" OR "instruction projection" OR "in-situ projection" OR "spatial AR") AND ((("manual assembly" OR "operator support" OR "operator assistance" OR "industrial assembly" OR "task guidance" OR "manual task support" OR "assembly process" OR "assembly line" OR "manual production" OR "manufacturing" OR "industrial manufacturing" OR "production task") OR ("worker augmentation" OR "operator guidance" OR "interactive guidance" OR "assembly instruction" OR "worker assistance" OR "maintenance" OR "training" OR "inspection guidance" OR "inspection" OR "quality assurance" OR "pick-by-light" OR "pick-by-vision")) AND ((("computer vision" OR "gesture tracking" OR "gesture recognition" OR "hand gesture" OR "hand tracking" OR "object tracking" OR "pose estimation" OR "viewpoint" OR "calibration" OR "gaze" OR "vision-based tracking" OR "mid-air gesture" OR "touchless interaction" OR "gesture-based control" OR "multimodal interaction" OR "EEG" OR "EEG-based workload assessment") OR ("brain-computer interface" OR "cognitive load estimation" OR "neuroergonomics" OR "cognitive ergonomics" OR "mental effort" OR "cognitive state" OR "adaptive interface" OR "adaptive user interface" OR "context-aware interface" OR "adaptive instruction system" OR "system usability scale" OR "usability" OR "real-time feedback loop" OR "closed-loop interaction" OR "occlusion handling" OR "occlusion-aware") OR ("reinforcement learning interface" OR "human-in-the-loop" OR "human-centric automation" OR "smart operator" OR "future manufacturing" OR "SAR navigation" OR "quality control")) NOT ("synthetic aperture radar")	436
Springer Nature-Link	("spatial augmented reality" OR "projected augmented reality" OR "projected AR" OR "non-wearable augmented reality" OR "projection-based AR" OR "AR projection system" OR "instruction projection" OR "in-situ projection" OR "spatial AR" OR "SAR") AND ((("manual assembly" OR "operator support" OR "operator assistance" OR "industrial assembly" OR "task guidance" OR "manual task support" OR "assembly process" OR "assembly line" OR "manual production" OR "manufacturing" OR "industrial manufacturing" OR "production task") OR ("worker augmentation" OR "operator guidance" OR "interactive guidance" OR "assembly instruction" OR "worker assistance" OR "maintenance" OR "training" OR "inspection guidance" OR "inspection" OR "quality assurance" OR "pick-by-light")) AND ((("computer vision" OR "gesture tracking" OR "gesture recognition" OR "hand gesture" OR "hand tracking" OR "object tracking" OR "pose estimation" OR "calibration" OR "gaze" OR "vision based tracking" OR "mid air gesture" OR "touchless interaction" OR "gesture based control" OR "multimodal interaction" OR "EEG" OR "EEG-based workload assessment") OR ("cognitive load estimation" OR "cognitive ergonomics" OR "mental effort" OR "cognitive state" OR "adaptive interface" OR "adaptive user interface" OR "context aware interface" OR "adaptive instruction system" OR "usability" OR "real time feedback loop" OR "closed loop interaction" OR "occlusion handling" OR "occlusion-aware") OR ("human-in-the-loop" OR "human-centric automation" OR "smart operator" OR "future manufacturing" OR "quality control")) AND NOT ("synthetic aperture radar" OR "successive approximation radar")	1,000

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Database Name	Search String	# Results
Google Scholar	((("spatial augmented reality" OR "projected augmented reality" OR "projected AR" OR "non-wearable augmented reality" OR "projection-based AR" OR "AR projection system" OR "instruction projection" OR "in-situ projection" OR "spatial AR") AND ((("manual assembly" OR "operator support" OR "operator assistance" OR "industrial assembly" OR "task guidance" OR "manual task support" OR "assembly process" OR "assembly line" OR "manual production" OR "manufacturing" OR "industrial manufacturing" OR "production task") OR ("worker augmentation" OR "operator guidance" OR "interactive guidance" OR "assembly instruction" OR "worker assistance" OR "maintenance" OR "training" OR "inspection guidance" OR "inspection" OR "quality assurance" OR "pick-by-light")) AND ((("computer vision" OR "gesture tracking" OR "gesture recognition" OR "hand gesture" OR "hand tracking" OR "object tracking" OR "pose estimation" OR "calibration" OR "gaze" OR "vision based tracking" OR "mid air gesture" OR "touchless interaction" OR "gesture based control" OR "multimodal interaction" OR "EEG" OR "EEG-based workload assessment") OR ("cognitive load estimation" OR "cognitive ergonomics" OR "mental effort" OR "cognitive state" OR "adaptive interface" OR "adaptive user interface" OR "context aware interface" OR "adaptive instruction system" OR "usability" OR "real time feedback loop" OR "closed loop interaction" OR "occlusion handling" OR "occlusion-aware") OR ("human-in-the-loop" OR "human-centric automation" OR "smart operator" OR "future manufacturing" OR "quality control")))	699